Cedar-Sammamish Basin Technical Committee Meeting

Wednesday, May 23, 1:30–3:30

Community Center at Mercer View 8236 SE 24th Street, Mercer Island

AGENDA

1.	Introductions and Approve Minutes	Nancy Faegenburg 1:30 - 1:40
2.	Advisory Committee Meeting Recap	Brian Murray 1:40 – 1:50
3.	New Project Summary Sheets – Discussion	Nancy Faegenburg 1:50 – 2:50
4.	Prioritized Project List – Discussion and Recommendations	Brian Murray 2:50 – 3:20
5.	Proposed Subregional Project Criteria	Brian Murray 3:20 – 3:30

Cedar – Sammamish Basin Technical Committee Meeting Summary for May 23, 2007

Attendees:

Ron Straka; Damon Diessner; Mark Relph; Brian Ward; Denny Vidmar; Kerry Ritland; Tom Barry; Julie Hall; Tom Carpenter; Jenny Gaus; Brian Murray; Steve Bleifuhs; Nancy Faegenburg

Meeting Summary (key discussion points and decisions):

Brian Murray, District Coordinator, provided a summary of the first Advisory Committee (AC) Meeting which was convened on May 17th. At that meeting, AC members had an opportunity to introduce themselves and briefly describe their interest and history with respect to flooding, and to engage in dialogue about the newly-established Flood Control Zone District (District) and the role they would play. Discussion centered on familiarizing members with the nature of flooding in King County, the District's structure, and the work plan for the committee.

A more detailed summary of the meeting was recorded in the AC minutes (distributed via email). The dates of upcoming AC meetings were provided.

Nancy Faegenburg, King County Basin Technical Lead, then facilitated distribution and discussion of the new project proposals from the Cities and the UAC. The goal of the discussion, ultimately, was to assemble a list of additional projects for potential inclusion in the CIP list that will be submitted to the AC on June 8th. Participants were asked to make their own preliminary determination of whether they thought their projects would fall into a "regional" or a "subregional" category. It was agreed that the categorization of regional vs. subregional has not been clearly defined, and as such, the project lists may change. The focus of this meeting was to rank those projects deemed by their proponents to be regional using the criteria provided by District staff.

Each project proponent provided a brief explanation of the flooding problem, the proposed solution, and their recommended prioritization scores. Discussion fell into several distinct areas:

- Clarifications on specific elements of the CIP proposals.
- The ranking process itself, including the suggestions to refine the criteria and direction on interpretation of scores.
- Suggestions for Regional vs. Subregional project definition

The following are the key comments and suggestions with respect to the scoring:

- Urgency questions need thresholds these are well suited to use of flood event probabilities.
- Questions/criteria as currently written are better suited to rivers than to streams.
- Consider adding a criterion for mitigation of future risk, because allowable land use changes could mean a lost opportunity to provide risk reduction (e.g., acquisition of undeveloped but developable lands).

In the end, participants asked the County to take all the information and the scores provided, and do a cross-check for consistency in scoring across the basin. Participants were asked at this point if they had any "red-flag" concerns with the write-ups and rankings previously provided for the Flood Hazard Management Plan projects (e.g., the existing project list). No project-specific issues were raised, but it was agreed that we would all want more time for the process of developing the CIP list next year. Staff also emphasized that many of these projects are still in development, and as such they are draft and rankings could change. The final recommended scores for all projects (new and existing) are shown in the attached spreadsheet.

Brainstormed items specific to the definition of regional and subregional projects were recorded as follows and put into a "Parking Lot" for future follow-up:

Potential Regional vs. Sub-Regional Criteria

- Cost/Scope of Solution
- Frequency and intensity of flood problem
- Persistent and chronic flood problem
- Scale/Magnitude of flows (e.g., basin size, average flow, peak flow, etc.)
- Regional consequence of flood problem (e.g., public safety, economic impact)
- Multi-jurisdictional this could be multi-jurisdictional impact area OR multijurisdictional cause/source
- Regional is larger scale river systems
- FEMA repetitive loss properties
- Locally-identified repetitive loss properties (e.g., properties w/o NFIP policies but which experience repeated flooding)

Define it by what it ISN'T:

• Cases of letting people build where they shouldn't have based on information available at the time (e.g. not development from 100 yrs ago, but new development in the last 10 yrs)

King County FCZD Preliminary Project Prioritization Criteria

The following prioritization scheme is intended to help prioritize KCFCZD projects based on the imperative to complete each project from a flood risk/vulnerability perspective only. The basis for these criteria is the 2006 King County Flood Hazard Management Plan policies related to flood risk hierarchy (G-2) and project prioritization (PROJ-1). Legal responsibility, environmental impacts or benefits, benefit-cost analyses, and funding or other opportunistic criteria, are not included in this prioritization scheme, but may be added at a later date.

1) What is the current land use? (Consequences)

This criterion is intended to give different weights to different types of land uses. If more than one type of land use is at risk, select the applicable land use with the highest score. Use the score range provided to give more or less weight base on site specific conditions. For example a sole access road would be given a higher score than one for which a reasonable alternative route exists.

Description	Score
Critical Facilities (See list on page 2)	11-12
Residential	9-10
Commercial (Some commercial structures are critical facilities - see list)	7-8
Agricultural (FPP land should be given higher score than non FPP lands)	5-6
Developed Recreational (Those with regional importance should receive higher scores.)	3-4
Undeveloped land in floodplain or Moderate CMZ	1-2
Undeveloped land in floodway or Severe CMZ	0

2) How serious is the potential impact? (Consequences and Severity)

This criterion is intended to evaluate the nature and severity of the impacts irrespective of the scale at which the impact will occur. The scoring range can be used to differentiate between similar types of impact that have different liklihoods of occuring.

Description	Score
Human injury or death could result from deep fast flows or sudden changes in flood conditions.	9-12
(e.g. levee or road failure.)	
Total loss of developed land use (e.g. developed land is converted to river channel.)	7-8
Severe flood or erosion damage that will heavily impact those affected.	5-6
Moderate flood or erosion damage which will not likely have a long term impact on those	3-4
affected.	
Flooding that interrupts human activity or will result in some clean up needs but which will	1-2
results in little or no damage that will need to be repaired.	

3) How extensive will the impact be? (Consequences and Severity)

This criterion describes the scale of the problem. Is the problem manifest over a large area or in a manner that will affect a large number of people, or is it largely localized. In instance were the physical impact is over a small area, but a larger number of people will be affected, apply score based on the impact rather that just the physical area. Scoring range can be used to differentiate between different degrees of extensivness within the listed catagories.

Description	Score
Regional (Impacts will be felt well outside the area in which the flooding or erosion occurred.)	7-8
Severe (City centers, larger neighborhood)	5-6
Moderate (Several structures, roads et impacted)	3-4
Localized (Affects a few homes or business)	1-2

4) How soon will the impact occur? (Urgency)

Project Prioritization 5/10/07

This criterion is used to describes how soon the flood risk needs to be addressed to avoid its occurrence or reoccurrence.

Description	Score
Some or all of the damages described will likely occur or recur during the next major high flow	5-6
event.	
Damages may occur during the next high water event, or the potential for them to occur is	3-4
rapidly increasing.	
Damages will eventually occur, but the risk of them occuring is not increasing rapidly	1-2

Critical Facilities Defined

The following list is intended to help understand what constitutes a "Critical Facility". This list has been compiled from the KC Critical Areas Ordinance and the International Building Code.

- 1. Facilities in which > 300 people congregate
- 2. Daycares, elementary schools and secondary schools with > 250 people
- 3. College and adult education facilities with > 50 people
- 4. Hospitals and Healthcare facilities with > 50 resident patients
- 5. Jails and detention facilities
- 6. Facilities with > 5000 occupants
- 7. Power, Wastewater and potable water treatment facilities
- 8. Fire, rescue and police facilities
- 9. Designated emergency shelters
- 10. Power generation and public utility faculties
- 11. Aviation facilities
- 12. Critical national defense facilities
- 13. Nursing and personal care facilities
- 14. Senior citizen assisted housing
- 15. Public roadways and bridges
- 16. Sites that produce, use or store hazardous substances or hazardous waste (not including sites that temporarily store household products intended of sale on the site)

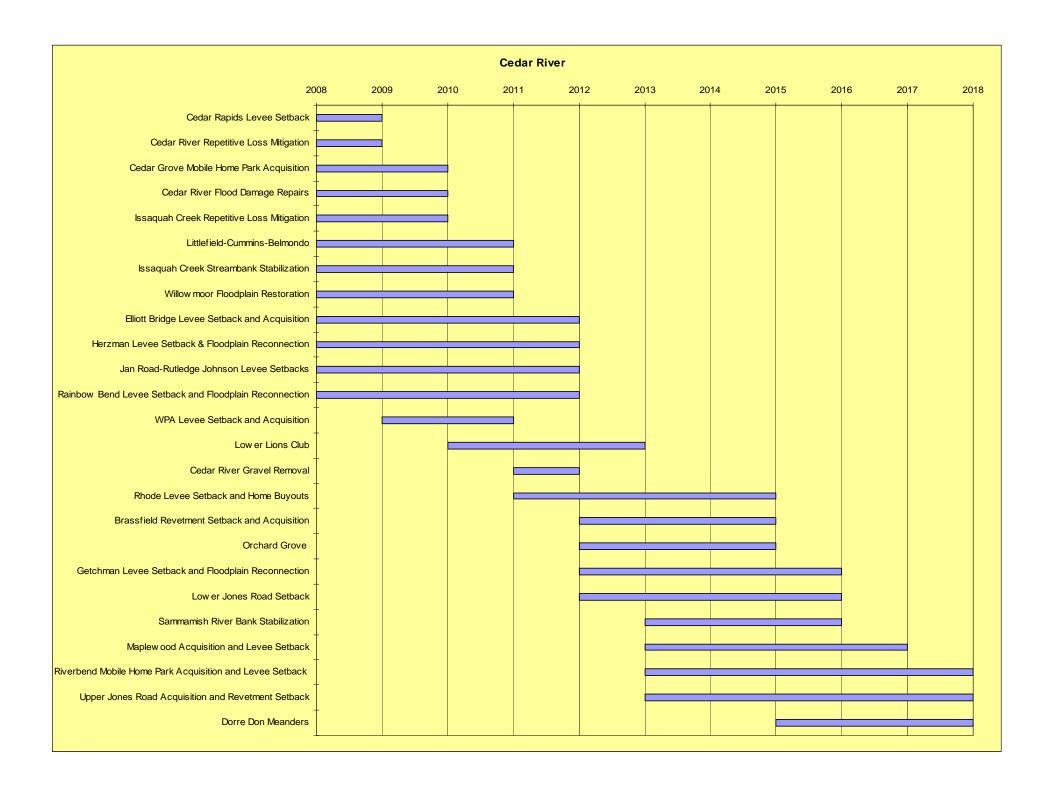
Ordinance 15051 (CAO), lines 605 - 614

Critical facility: a facility necessary to protect the public health, safety and welfare including, but not limited to, a facility defined under the occupancy categories of "essential facilities," "hazardous facilities" and "special occupancy structures" in the structural forces chapter or succeeding chapter in the K.C.C. Title 16. Critical facilities also include nursing and personal care facilities, schools, senior citizen assisted housing, public roadway bridges and sites that produce, use or store hazardous substances or hazardous waste, not including the temporary storage of consumer products containing hazardous substances or hazardous waste intended for household use or for retail sale on the site.

Section 1602 International Building Code

Esseintial Facilities. Buildings and other structures that are intended to remain operational in the event of extreme environmental loading from flood, wind, snow or earthquakes.

Project Prioritization 5/10/07



Cedar-Sammamish Risk Prioritized Project List

			How		I		
			serious is	How	How soon		
		What is the	the	extensive	will the		
		current	potential	will the	impact	Total	
Project Name	Project Description	land use?	impact?	impact be?	occur?	Score	Notes
Cedar River Flood Damage	Complete five Cedar River flood	11	8	7	6	32	
Repairs	protection facility repair projects.		Ü		· ·	02	
Dorre Don Meanders	Purchase flood-prone properties	10	10	6	4	30	
	in lower Dorre Don area and,						
	where possible, modify levees to						
	improve flood conveyance.						
Cedar Grove Mobile Home Park	Purchase homes and property	10	9	6	4	29	
Acquisition	that are subject to extreme						
	flooding.						
Cedar River Repetitive Loss	Purchase or otherwise mitigate	10	6	6	6	28	
Mitigation	flood risks to nine repetitive loss						
	properties.						
Issaquah Creek Repetitive Loss	Elevate homes or otherwise	10	6	6	6	28	
Mitigation	mitigate flood risks to two						
	repetitive loss properties.						
Maplewood Acquisition and Levee		9	10	5	3	27	
Setback	where possible, restore floodplain						
0 5: 0 15	function.				0	00	
Cedar River Gravel Removal	Periodic gravel removal from the	8	8	8	2	26	
	lower Cedar River to maintain 100-						
Orchard Grove	year flood protection. Purchase flood-prone homes in	10	9	4	3	26	
Orchard Grove	the Orchard Grove and, where	10	9	4	3	20	
	possible, restore floodplain						
	function.						
Riverbend Mobile Home Park	Purchase property underlying only	9	9	5	3	26	
Acquisition and Levee Setback	19 most at risk mobile homes,		J		J	20	
requientier and zevee consact	recontour existing revetment to						
	reduce erosion, flood damage and						
	improve flood conveyance.						
	Alternatively, purchase all						
	property and remove all mobile						
	homes and the revetment.						

Cedar-Sammamish Risk Prioritized Project List

		What is the	How serious is the	How extensive	How soon will the		
		current	potential	will the	impact	<u>Total</u>	
<u>Project Name</u>	Project Description	land use?	impact?	impact be?	occur?	<u>Score</u>	<u>Notes</u>
Cedar River Flood Damage	Complete five Cedar River flood	11	8	7	6	32	
Repairs	protection facility repair projects.	40	40		4		
Dorre Don Meanders	Purchase flood-prone properties in lower Dorre Don area and, where possible, modify levees to improve flood conveyance.	10	10	6	4	30	
Issaquah Creek Streambank	Stabilize bank at three sites along	11	6	4	5	26	
Stabilization	Issaquah Creek where roads and other infrastructure are at risk from erosion.						
Elliott Bridge Levee Setback and Acquisition	Complete hazard mitigation projects (buyouts, levee setback, etc) for repetitive loss reach currently constrained by armored banks that do not offer adequate flood risk reduction.	10	6	4	5	25	
Lower Jones Road Setback	Purchase the homes and property and set back road and associated revetment to improve conveyance and capacity.	11	6	5	3	25	
Lower Lions Club	Purchase flood-prone homes, including two repetitive loss properties.	10	9	2	4	25	
Cedar Rapids Levee Setback	Provide local match for \$1.5 M levee set back project designed to improve flood conveyance and capacity.		8	4	3	24	
Herzman Levee Setback & Floodplain Reconnection	Setback levee to reduce erosive forces of the river on the Cedar River Trail and SR-169.	11	6	4	3	24	
Jan Road-Rutledge Johnson Levee Setbacks	Remove portions levees that only protect open space. Segments of existing levees constrict conveyance and direct erosive flood flows into the Cedar River Trail and SR-169.	11	6	4	3	24	

Cedar-Sammamish Risk Prioritized Project List

		What is the	How serious is the	How extensive will the	How soon will the	Total	
Project Name	Project Description	current land use?	potential impact?	impact be?	impact occur?	<u>Total</u> Score	Notes
Cedar River Flood Damage Repairs	Complete five Cedar River flood protection facility repair projects.	11	8	7	6	32	110.00
Dorre Don Meanders	Purchase flood-prone properties in lower Dorre Don area and, where possible, modify levees to improve flood conveyance.	10	10	6	4	30	
Rainbow Bend Levee Setback and Floodplain Reconnection	Setback levee to improve conveyance and floodplain capacity.	11	6	4	3	24	
Willowmoor Floodplain Restoration	Reconfigure the outlet of Lake Sammamish to improve conveyance and reduce flooding problems around the lake.	9	2	6	5	22	
Rhode Levee Setback and Home Buyouts	Purchase homes along path of fastest, deepest flood flow and set back levee.	9	6	З	3	21	
Getchman Levee Setback and Floodplain Reconnection	Setback the levee to improve conveyance and capacity. Most of the acquisitions needed for this project have already been completed.	9	4	3	3	19	
WPA Levee Setback and Acquisition	Purchase homes in floodway and floodplain. Setback or remove levee.	9	5	2	3	19	
Sammamish River Bank Stabilization	Setback river banks to increase structural integrity.	9	2	4	2	17	
Littlefield-Cummins-Belmondo	Purchase homes located in the floodplain and in the severe channel migration hazard area.	9	5	1	1	16	
Upper Jones Road Acquisition and Revetment Setback	Purchase homes behind the upstream end of the Scott-Indian levee and set back the levee.	9	3	2	2	16	

Cedar-Sammamish Risk Prioritized Project List

			How serious is	How	How soon		
		What is the		extensive	will the		
		current	potential	will the	impact	<u>Total</u>	
Project Name	Project Description	land use?	impact?	impact be?	occur?	Score	<u>Notes</u>
Cedar River Flood Damage	Complete five Cedar River flood	11	8	7	6	32	
Repairs	protection facility repair projects.						
Dorre Don Meanders	Purchase flood-prone properties	10	10	6	4	30	
	in lower Dorre Don area and,						
	where possible, modify levees to						
	improve flood conveyance.						
Brassfield Revetment Setback	Complete hazard mitigation	9	3	2	1	15	
and Acquisition	projects (buyouts, levee setback,						
	etc) in reach currently constrained						
	by levees on both banks.						

Cedar-Sammamish Basin New Proposed Regional Projects

Project Name	Project Description	What is the current land use?	How serious is the potential impact?	How extensive will the impact be?	How soon will the impact occur?	Total Score	Notes
PSS-Issaquah - New Proj 1 - Issaquah Creek Undeveloped Property Acquistion		<u>use:</u>	impact:	De:	<u>occur:</u>	Total Score	Notes
PSS-Issaquah - New Proj 2 - Issaquah Creek Repetivie Loss Elevations and Floodproofing	Elevate or floodproof up to 13 single family repetitive loss homes.						
PSS-Issaquah - New Proj 3 - Gilman Square Floodproofing	Elevate or floodproof up to 6 commercial buildings in repetitive loss area.						
PSS-Issaquah - New Proj 5 - Issaquah Creek Property Acquisition Opportunity Fund	Acquisition Opportunity Fund						
PSS-Issaquah - New Proj 6 - Squak Valley Park Levee Removal	Levee setback or removal on bank opposite repetitive loss properties.						
PSS-Issaquah - New Proj 8 - Issaquah Creek Bank Stabilization Opportunity Fund	Residential bank stabilization opportunity fund.						
Renton- Carco Theater	Construct a levee to protect two public recreational facilities/buildings.						
Renton- Cedar River Bridge Flood Protection Project	Reconstruct 5 bridges to raise the elevation of their low chord which is currently in the floodway.						
Renton- Riviera Appartments Setback Levee	Mitigate flooding to apartment complex.						
Renton-Old City Hall flood protection project	Floodproof public building.						

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GENERAL INFORMATION

- 1. Project Name: Richards/Sunset Creek Property Acquisitions
- 2. Project Proponent (Name and Agency): City of Bellevue, Utilities Department
- 3. Basin/Watershed: WRIA 8 / Richards/East/Sunset Creeks

4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type
	description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
	Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
	✓ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$7,800,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or
	proposed, if not known:
	\$

LOCATION INFORMATION

\$ 0

- 7. **Downstream River Mile # to Upstream RM #:** Richards Creek **Station to Station:** 0+755 to 0+8950
- 8. Right bank, Left bank, or Both banks: both
- **9. Jurisdiction(s):** City of Bellevue
- 10. Public or Private lands: private
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know No

PROJECT INFORMATION

12. What's At Risk:

Repetitive loss commercial buildings.

13. Problem Statement:

The regional METRO sewer line located in the Richards Creek valley in south Bellevue is at-risk due to stream erosion where a new channel is developing across a forested wetland adjacent to the sewer line. Through natural processes, the stream channel shifted course and today flows across an area where previously no stream corridor existed. The stream shift occurred where Richards Creek had been channelized along property lines in the 1970's (prior to Sensitive Area ordinances). At that time, the streams were forced into unnatural right-angle bends and aligned to flow between several commercial box structures.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

Three separate creek systems (Richards, East, and Sunset) merge in the project vicinity. Each creek is constrained by long, straight stream corridors between commercial warehouse buildings. The project site is a historic wetland/ floodplain area where the valley slope flattened and thus is a natural sediment deposition zone. Because the stream corridors are so narrow, make unnatural bends, and is a sediment deposition zone, the long-term solutions for flooding and habitat restoration are to restore natural floodplain connectivity and stream alignments to this confluence area. Otherwise, stream bed aggradation will continue and periodic sediment removal will be required. Mitigation for impacts to streamside habitat from this periodic maintenance will also be ongoing. Currently, the creeks in this area have no functioning floodplain and have extremely limited riparian habitat. Spawning salmon, including species protected under the Endangered Species Act, are known to use the corridors. Engineering solutions to increase conveyance capacity are limited due to narrow creek corridors, the need to excavate excess sediment and the presence of the buildings. Private property issues are also an obstacle.

13. Proposed Project or Action:

Eliminate repetitive flooding by acquiring several commercial and vacant properties in the area where the three creeks merge. Use property ownership as a means to design a stabile channel adjacent to the METRO sewer line. Demolish the commercial buildings and restore the area as natural open space to establish a functioning system by reconnecting the creeks with the floodplain, providing spawning and rearing aquatic habitat, and providing a natural deposition area for sediment.

14. Project Benefits:

Regional infrastructure protected. Structural flooding eliminated. Improved riparian habitat, including habitat for listed salmon species. Provide sediment storage volume, peak flow attenuation, reduced system operation and maintenance cost, aligned with Park's Department trail building goal.

15. Coordination Needs:

Private property owners

16. Other Information or Needs:

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

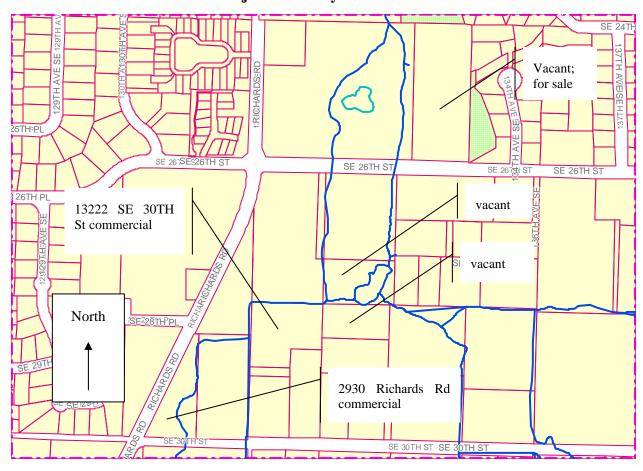
17.	Policy	G-2	Flood Risks	:: please	check	all tha	t apply.	, as to	be ac	dressed	by the	proposed	project	t and
	include	e a bi	rief description	on of the	e risk.									
		,												

<u> </u>	Threats to public safety: business district, dead-end street
<u>_</u>	Damage to public infrastructure: street flooding, metro sewer line
	Impacts on the regional economy:
	Damage to private structures:

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18.	Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.
	The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2:
	✓ Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse:
	 Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between City of Bellevue and another person or agency to maintain a flood protection facility: Funding or partnership opportunities:
19.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
20.	Is the project identified within an adopted local hazard mitigation plan?
	Yes ✓ No
21.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes No
22.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	✓ Yes—some properties are for sale✓ No—occupied properties are not for sale N/A

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GENERAL INFORMATION

- 1. Project Name: Lower Coal Creek Flood Hazard Reduction projects
- 2. Project Proponent (Name and Agency): City of Bellevue, Utilities Department
- 3. Basin/Watershed: WRIA 8 / Coal Creek

4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type
	description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
	Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
	✓ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$22,000,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or
	proposed, if not known:
	\$

LOCATION INFORMATION

\$ 0

- 7. Downstream River Mile # to Upstream RM #: RM 0 to RM 0.7 Station to Station: 0+0 to 0+3900
- 8. Right bank, Left bank, or Both banks: both
- **9. Jurisdiction(s):** City of Bellevue
- 10. Public or Private lands: both
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know No

PROJECT INFORMATION

12. What's At Risk:

Regional transportation corridor (I-405), densely populated neighborhood, repetitive loss area homes.

13. Problem Statement:

Homes downstream of the I-405 regional detention facility are constructed on an historic river delta where the creek empties into Lake Washington. Preliminary floodplain modeling predicts that many of the homes are at risk of structural flooding beginning with moderate storms. One house in this area is identified as FEMA repetitive flood loss property. It last flooded prior to construction of the regional detention pond, thus it is considered to be a mitigated property in the FEMA program. The creek is confined to a narrow corridor flowing through manicured lawns in an upscale residential

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neighborhood. Five box culverts interspersed throughout the neighborhood, each too small to convey the 100-year flow rate, exacerbate the flooding situation. Levees constructed along the left and right banks, do not meet federal standards, nor do they contain the 100-year flow, and do not connect to higher ground. Stream bed aggradation has dramatically reduced the stream conveyance capacity since the neighborhood was constructed in the late 1960's. Sediment delivery rates are higher than what might be expected in a watershed of this size due to mining practices in the upper watershed in the early 20th century.

The I-405 regional detention facility is a 20 acre-foot, in-channel regional detention pond facility located at the upstream extent of the Newport Shores reach of Coal Creek. Peak storm flows are mitigated, but not sufficiently to prevent flooding for moderate to sever storm events (e.g. 100-year storm). Increasing storage of the regional pond is a goal, but will be limited because existing upstream development caps the inundation elevation. Fish passage at the control structure is another design consideration for enhancing the facility. Reducing the flood risk in this area is problematic because many of the threatened structures are not necessarily next to the creek. Those distant properties are threatened because the storm drain connections to the creek have very flat slopes thus allowing water to "backup" through the system.

13. Proposed Project or Action:

Increase the storage capacity of the regional pond while maintaining fish passage to effectively reduce flow rates to protect private property and maintain stream channel capacity. Increase conveyance capacity of five box culverts and construct Army Corp of Engineer's approved levees where feasible.

14. Project Benefits:

Reduce flood risk to dozens of homes; increase sediment storage volume in the regional detention pond to slow down channel aggradation, improve conveyance; enhance riparian and floodplain habitat conditions.

15. Coordination Needs:

Newport Shores Home Owners Association, Residents, Newport Yacht Club, State Fish and Wildlife department, Army Corp of Engineers, Muckleshoot Tribe

16. Other Information or Needs:

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

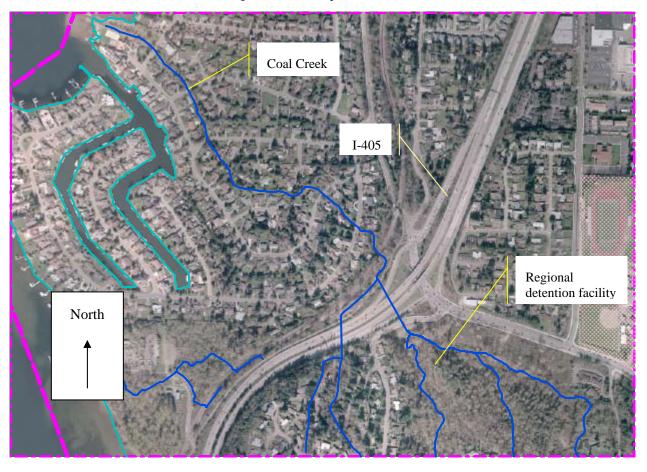
17.	Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project at	nd
	nclude a brief description of the risk.	

\checkmark	Threats to	public safety	densely r	opulated	neighborhood
•	Tincats to	public salety.	uchiscry p	opulated	neignoornood

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	 ✓_ Damage to public infrastructure: culverts, metro sewer line ✓_ Impacts on the regional economy: ✓_ Damage to private structures:
18.	Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.
	 The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: _✓_ Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: _✓_ Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between City of Bellevue and another person or agency to maintain a flood protection facility: Funding or partnership opportunities:
19.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
20.	Is the project identified within an adopted local hazard mitigation plan?
	Yes No
21.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes ✓ No
22.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes No ✓ N/A

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GENERAL INFORMATION

- 1. Project Name: Issaquah Creek Undeveloped Property Acquisition
- 2. **Project Proponent** (Name and Agency): Kerry Ritland, City of Issaquah Public Works Engineering Department
- 3. Basin/Watershed: Issaquah Creek/Sammamish River
- 4. Project Type: check all that apply. See Criteria/Policy Handout for additional project type description.

 —— Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list

 —— Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list

 —— Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
 5. Total Estimated Project Cost (all phases): \$675,000 (\$75,000 per parcel)

6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or
	proposed, if not known:
	\$
	\$0

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: all
- 8. Right bank, Left bank, or Both banks: Both
- **9. Jurisdiction(s):** Issaguah and King County
- 10. Public or Private lands: Private
- 11. Agriculture Production District or Farmland Preservation Program lands: No

PROJECT INFORMATION

- **12. What's At Risk:** Undeveloped properties in areas of known high flood hazard within the Issaquah Creek floodplain that can be developed into residential homes.
- 13. Problem Statement: Development of properties within historical flood hazard areas could result in future flood losses and risks to public safety. Recent floods, including 1990 and 1996, demonstrates that this area experiences significant flooding causing repetitive losses at existing structures. While current development standards for construction in floodplains are in compliance with FEMA, residual safety risks remain because floodwaters cut off access to these properties, preventing emergency response actions during flooding events.
- **14. Proposed Project or Action:** Purchase flood-prone undeveloped residential parcels.
- **15. Project Benefits:** Prevention of future flood losses and risks to public safety. Existing homes in many neighborhoods along Issaquah Creek have experienced repetitive losses during the 1990 and 1996 floods. For current undeveloped parcels this can be avoided if acquired prior to development and dedicated as open space. Also, property acquired and dedicated as open space provides a significant benefit towards preserving valuable habitat for fish and wildlife. Issaquah has implemented several stream, floodplain and wetland restoration projects in the last five years, which

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can be expanded to newly acquired properties, and King County has also purchased many properties to prevent future floodplain development and preserve the stream corridor

16.	Coordination Needs:
17.	Other Information or Needs: None
	OJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for anded policy text and criteria, used to generate draft KC FCZD CIP lists)
	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
	x_ Threats to public safety: If these properties are developed, future floods will create risks to public safety due to inherent flood hazards, and because floodwaters will cut off access to these properties, preventing emergency response actions during flooding events if floods makes the homes inhabitable Damage to public infrastructure: Impacts on the regional economy:x_ Damage to private structures: Future floods will likely cause significant flood damage at these properties due to their proximity to Issaquah Creek, even if they are constructed to current standards.
	Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.
	x_ The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: See question 18, above. There is a direct threat to public safety and private property if this project is not implementedx_ Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: There is an urgent need to acquire properties before they are developed Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: Does not applyx_ Funding or partnership opportunities: Habitat preservation and restoration grants may contribute to acquisition cost.
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	<u>x</u> 0-2 years 3-6 years 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	x_ Yes No
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	x_ Yes No

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

<u>«</u> `	Yes (on many propertie No	es, but not all)		

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

- 1. **Project Name:** Issaquah Creek Loss Area Structure Elevations and Floodproofing
- 2. **Project Proponent** (Name and Agency): Kerry Ritland, City of Issaquah Public Works Engineering Department
- **3. Basin/Watershed:** Issaquah Creek/Sammamish River

4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type
	description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
	X Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
	Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$750,000 (\$50,000 average per structure)
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known:

LOCATION INFORMATION

__ \$_ \$0

- 7. Downstream River Mile # to Upstream RM #: all basin
- 8. Right bank, Left bank, or Both banks: Both
- **9. Jurisdiction(s):** Issaguah and King County
- 10. Public or Private lands: Private
- 11. Agriculture Production District or Farmland Preservation Program lands: No

PROJECT INFORMATION

- **12. What's At Risk:** Single family repetitive loss structures, including two in rural King County and 13 in the City of Issaquah, located in high flood hazard areas of the Issaquah Creek floodway and floodplain.
- 13. Problem Statement: Many residential developments was constructed before flood development standards for construction in floodplains were enacted in 1980. Recent floods, including in 1990 and 1996, demonstrates that Issaquah Creek experiences significant flooding, resulting in repetitive losses at existing structures. Future floods will likely cause additional repetitive damages, along with risks to public safety because floodwaters cut off access to these properties, preventing emergency response actions during flooding events.

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14. Proposed Project or Action: Provide assistance to repetitive loss single family structures within the Issaquah Creek floodplain to elevate and/or floodproof structures to current floodplain standards. This will help mitigate current repetitive losses to allow them to be taken off of repetitive loss lists. Elevations will raise first floors to 1-2 feet above the base flood elevation.
15. Project Benefits: Mitigation of future flood losses at existing repetitive loss properties.
16. Coordination Needs: None
17. Other Information or Needs: None. Current floodplain mapping is up-to-date for determining the required BFE for elevating structures.
PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)
18. Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
Threats to public safety: Future floods will create risks to public safety due to inherent flood hazard. Floodwaters will also cut off access to these properties, preventing emergency response actions during flooding events if floods make the homes inhabitable Damage to public infrastructure: Impacts on the regional economy: Damage to private structures: Future floods will likely cause additional repetitive damages at five properties currently on the repetitive loss list, and up to three additional homes in the area.
19. Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.
 _x The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2:: See question 18, above. There is a continued threat to public safety and private property if this project is not implemented. _x Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: There is an urgent need to floodproof the repetitive loss properties before another major flood occurs. _ Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: N/A _ x Funding or partnership opportunities: A funding match of 25-50% by the property owner may be appropriate.
20. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
<u>x</u> 0-2 years <u>3-6 years</u> 6+ years
21. Is the project identified within an adopted local hazard mitigation plan? x_ Yes No

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22.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes x_ No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes N/A No

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GENERAL INFORMATION

- 1. **Project Name:** Gilman Square Repetitive Loss Area Structure Elevations and Floodproofing
- 2. **Project Proponent** (Name and Agency): Kerry Ritland, City of Issaquah Public Works Engineering Department
- 3. Basin/Watershed: Issaquah Creek/Sammamish River
- 4. Project Type: check all that apply. See Criteria/Policy Handout for additional project type description.
 Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
 Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
 Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
- 5. Total Estimated Project Cost (all phases): \$250,000
- 6. Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known:
 \$_____\$
 \$ 0

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: 2.5-2.8
- 8. Right bank, Left bank, or Both banks: Left
- **9. Jurisdiction(s):** Issaquah
- 10. Public or Private lands: Private
- 11. Agriculture Production District or Farmland Preservation Program lands: No

PROJECT INFORMATION

- **12. What's At Risk:** Commercial structures, including five repetitive loss structures, next to Gilman Boulevard within a known high flood hazard area in the Issaquah Creek floodplain.
- 13. Problem Statement: The Gilman Repetitive Loss Area, located on Issaquah Creek next to Gilman Boulevard in the Gilman Square development, consists of several commercial buildings that were build many years ago in a high flood hazard area. Recent floods, including in 1990 and 1996, demonstrates that this area experiences significant flooding, resulting in repetitive losses totaling \$786,000 at four structures. Future floods will likely cause additional repetitive damages, along with risks to public safety because floodwaters cut off access to these properties, preventing emergency response actions during flooding events.
- **14. Proposed Project or Action:** Provide assistance to up to six commercial buildings within the Gilman Repetitive Loss Area to elevate and/or flood proof structures to current floodplain standards. This will help mitigate current repetitive losses at up to four structures, to allow them to be taken off of the City's repetitive loss list (the total number of repetitive loss properties in Issaquah is 19).

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Elevations will raise first floors to 1-2 feet above the base flood elevation, or floodproofing methods will be used based on current criteria, based on floodplain mapping recently developed for the Issaquah Flood Insurance Study update.

- **15. Project Benefits:** Mitigation of future flood losses at up to six properties, including four repetitive loss properties.
- 16. Coordination Needs: None
- **17. Other Information or Needs:** None. Current floodplain mapping is up-to-date for determining the required BFE for elevating structures.

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
	x_ Threats to public safety: Future floods will create risks to public safety due to inherence flood hazard, and because floodwaters will cut off access to these properties, preventing emergency response actions during flooding events Damage to public infrastructure:x_ Impacts on the regional economy: Commercial properties are established business that contribute to the local economyx_ Damage to private structures: Future floods will likely cause additional repetitive damages at four properties currently on the repetitive loss list, and up to two additional properties in the area.
19.	Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.
	 _x The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2:: See question 18, above. There is a direct threat to public safety and private property if this project is not implemented. _x Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: There is an urgent need to flood proof the repetitive loss properties before another major flood occurs. Several property owners have inquired with the City on how flooding on their property can be
	 mitigated. Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: Does not apply. X Funding or partnership opportunities: A funding match of 25-50% by the property owner may be appropriate.
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years

21. Is the project identified within an adopted local hazard mitigation plan?

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<u>X</u> _	Yes No
22. Do p	operty interests need to be acquired (fee simple or easement) for this project?
	Yes
<u> X</u>	No
lette	perty interests need to be acquired, is the landowner willing to sell or sign a voluntary of agreement, expressing an interest in selling necessary property interests?
	Yes N/A
	$N_{\rm O}$

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GENERAL INFORMATION

- 1. Project Name: Issaquah Creek Property Acquisition Opportunity Fund
- 2. **Project Proponent** (Name and Agency): Kerry Ritland, City of Issaquah Public Works Engineering Department
- 3. Basin/Watershed: Issaquah Creek/Sammamish River

4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type
	description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
	X Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
	Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
_	
5.	Total Estimated Project Cost (all phases): \$500,000 per year indefinitely (1 structure per year on

average).6. Proposed Local Share (if sub-regional project). Provide other actual local share if known or

propo	sea, if not known:
	\$
	\$ 0

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: all
- 8. Right bank, Left bank, or Both banks: Both
- **9. Jurisdiction(s):** Issaquah and King County
- 10. Public or Private lands: Private
- 11. Agriculture Production District or Farmland Preservation Program lands: No

PROJECT INFORMATION

- **12. What's At Risk:** Existing developed single family, multi-family, and commercial structures in high flood hazard of Issaquah Creek, East Fork Issaquah Creek, and North Fork Issaquah Creek floodways and floodplains.
- 13. Problem Statement: Many existing developed properties in the Issaquah Creek watershed was developed many years ago before flood development standards for construction in floodplains were enacted in 1980. Past land use regulations allowed construction of buildings close to the creek, along with filling that impacted adjacent properties. Recent floods, including in 1990 and 1996, demonstrates that many areas of Issaquah experience significant flooding. Future floods will likely cause additional repetitive damages, along with risks to public safety because floodwaters cut off access to these properties, preventing emergency response actions during flooding events. To address the continued threat of Issaquah Creek flooding, as well as flooding on the East and North forks of Issaquah Creek, the 1996 Final Issaquah Creek Basin and Nonpoint Plan recommended establishing a property buyout program to remove homes from the floodplain (Basin-wide program BW 7). Over

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the last 10 years the City of Issaquah has been successful in purchasing and removing structures from five flood-prone properties that were considered most critical for mitigation.

- 14. Proposed Project or Action: This project will provide long-term financing to acquire non-repetitive loss properties having flood prone structures along Issaquah Creek. Funds will be held in an opportunity fund that will be available for acquisitions when properties become available, either as identified through a City or County mitigation proposal or by property owners who contact the City or County for possible buyouts. This will help mitigate current flood losses and assists with stream and floodplain restoration projects in accordance with the policies and funding guidance of the WRIA8 Chinook Salmon Conservation Plan.
- **15. Project Benefits:** Mitigation of future flood losses at existing developed properties along Issaquah Creek and its tributaries.
- 16. Coordination Needs: None
- 17. Other Information or Needs: None.

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

18. Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project and

include a brief description of the risk. x Threats to public safety: Future floods will continue to create risks to public safety along major streams. ____ Damage to public infrastructure: ____ Impacts on the regional economy: x Damage to private structures: Unless mitigated, future floods will cause additional flood damages at all repetitive loss properties in Issaguah, as well as others located in high flood hazard areas. 19. Policy PROJ-1 Prioritizing Flood Risks; please check all that apply, associated with proposed project and include a brief description of the risk. <u>x</u> The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: : See question 18, above. Significant threats to public safety and private property will continue as long as existing structures remain at risk to flooding. __x_ Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Acquisition and removal of flood prone structures is the most effective form of flood mitigation. Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: Does not apply. <u>x</u> Funding or partnership opportunities: **Possible habitat acquisition funding to help cost** share property acquisiton. 20. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal) ___ 0-2 years

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	<u>x</u> 3-6 years <u>x</u> 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	x_ Yes (Issaquah Creek Basin Plan) No
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	<u>x</u> _ Yes No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes Unknown at this time

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GENERAL INFORMATION

- 1. Project Name: Squak Valley Park Levee Removal and Habitat Restoration
- 2. **Project Proponent** (Name and Agency): Kerry Ritland, City of Issaquah Public Works Engineering Department
- 3. Basin/Watershed: Issaquah Creek/Sammamish River
- 4. Project Type: check all that apply. See Criteria/Policy Handout for additional project type description.
 Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
 Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
 Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
- 5. Total Estimated Project Cost (all phases): \$800,000
- **6. Proposed Local Share** (if sub-regional project). Provide other actual local share if known or proposed, if not known:
 - <u>x</u> \$350,000 (City of Issaquah Stormwater Capital Funds) 5 0

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: 5.3-5.6
- 8. Right bank, Left bank, or Both banks: Right
- 9. Jurisdiction(s): Issaquah
- 10. Public or Private lands: Public
- 11. Agriculture Production District or Farmland Preservation Program lands: No

PROJECT INFORMATION

- **12. What's At Risk:** Flooding of the Sycamore neighborhood, a single family residential development with approximately 1/2 dozen homes on left bank Issaquah Creek upstream of Sycamore Drive that is prone to flooding (including two repetitive loss properties).
- 13. Problem Statement: A levee that was constructed on Erickson Property (now city-owned Squak Valley Park North) in the 1930's is contributing to flooding of the Sycamore neighborhood because the levee is on the right bank of Issaquah Creek and is much higher than the floodplain area where homes are built on the left bank. Floods of 1990 and 1996 caused widespread flooding in the Sycamore neighborhood area. Full or partial removal of the levee will help mitigate flood losses through lower flood elevations, and also provide an opportunity to improve stream and riparian habitat. The levee provides very little flood protection benefit; a small portion of Issaquah-Hobart Road that does obtain some benefit from the current levee can be protected with a small setback levee outside of the stream buffer area.
- **14. Proposed Project or Action:** Construct the Squak Valley Park stream and riparian restoration project that includes partial or full levee removal. Project will include fish habitat enhancement,

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consistent with WRIA8 Salmon Conservation Plan proposal (on 3-year high priority list), and floodplain reconnection with remainder of city park property. (Note: this project replaces a Corps of Engineers Section 206 Ecosystem Restoration Project that was previously proposed for this location. That project was cancelled due to lack of federal funding). This project is currently under design, with construction scheduled for 2009.

- **15. Project Benefits:** Levee removal will help lower peak flood elevations in the area by creating additional conveyance area, and will reconnect Issaquah Creek to the floodplain which will restore natural floodplain processes such as sediment deposition, and also improve fish, riparian, and wetland habitats.
- 16. Coordination Needs: None
- 17. Other Information or Needs: None

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

18. Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project and

- include a brief description of the risk.

 __x_ Threats to public safety: Future floods will create risks to public safety due to inherent flood hazard in Sycamore area. Floodwaters also cut off access to these properties, preventing emergency response actions during flooding events if floods make the homes inhabitable.

 ___ Damage to public infrastructure:
 __ Impacts on the regional economy:
 __x_ Damage to private structures: Future floods will likely cause additional repetitive damages at two properties currently on the repetitive loss list, and up to four additional homes in the area.
- **19. Policy PROJ-1 Prioritizing Flood Risks**: please check all that apply, associated with proposed project and include a brief description of the risk.
 - <u>x</u> The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: **See question 18, above. There is a continued threat to public safety and private property if this project is not implemented.**
 - <u>x</u> Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: **This project provides a moderate degree of mitigation to reduce flood losses.**
 - __x_ Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: This levee is apparently on a King County flood protection easement. Removal of levee will enable King County to relinquish the easement.
 - _x_ Funding or partnership opportunities: The City has allocated a 50% match (up to \$350,000) in the Stormwater CIP for this project, for construction in 2009. City is currently applying for grant funding from WRIA8 Salmon Recover Funds and WRIA8 Puget Sound Salmon Funds.
- 20. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
 - __x_ 0-2 years (currently in design, with construction in 2009)

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	3-6 years
	6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	<u>x</u> Yes
	No
	Do property interests need to be acquired (fee simple or easement) for this project? Yes No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No

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GENERAL INFORMATION

- 1. Project Name: Issaquah Creek Bank Stabilization Opportunity Fund
- **2. Project Proponent** (Name and Agency): Kerry Ritland, City of Issaquah Public Works Engineering Department
- 3. Basin/Watershed: Issaquah Creek/Sammamish River

4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type
	description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
	X Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
	Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$150,000/year (2-3 projects per year)
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or
	proposed, if not known:
	\$

LOCATION INFORMATION

\$0

- 7. Downstream River Mile # to Upstream RM #: entire basin
- 8. Right bank, Left bank, or Both banks: Both
- **9. Jurisdiction(s):** Issaguah and King County
- 10. Public or Private lands: Public and Private
- 11. Agriculture Production District of Farmland Preservation Program lands: No

PROJECT INFORMATION

- **12. What's At Risk:** Existing structures along Issaquah Creek, East Fork Issaquah Creek, and North Fork Issaquah Creek.
- 13. Problem Statement: Many structures are located within a very short distance of Issaquah Creek, East Fork Issaquah Creek, and North Fork Issaquah Creek, and thus are at risk of flood damage caused by bank erosion. Construction of these structures was made possible by past land use regulations that allowed such development, and also by active public assistance programs from King County to stabilize stream banks. These assistance programs have ceased in recent decades due to lack of funding. After moderate to high floods there is typically a need to construct one or more bank stabilization projects to restore stream bank erosion to protect existing structures.
- **14. Proposed Project or Action:** Provide assistance to private and public property owners by implementing bank stabilization projects and other needed maintenance, incorporating current techniques such as bioengineering, setback revetments, and relocation. Includes design, permitting

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and construction of minor projects costing less than about \$150,000 each. Projects can be combined with habitat improvements, funded through other sources.

15.	Project Benefits: Stabilization of stream banks and maintenance of existing bank stabilization structures that are located in areas of where existing structures are close to the active stream channel will help mitigate future flood losses and improve public safety.	
16.	Coordination Needs: None	
17.	Other Information or Needs: None	
PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)		
18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.	
	x_ Threats to public safety: Existing structures that are located in close proximity to major streams must rely on bank stabilization structures. Failure to maintain a reasonable level of protection through active maintenance creates a substantial risk to public safety should they fail Damage to public infrastructure: Impacts on the regional economy:x_ Damage to private structures: Future floods will likely cause additional losses to property and structures if bank protection along major streams is not maintained.	
19.	Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.	
	x The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: See question 18, above. There is a continued threat to public safety and private property if this project is not implemented. x Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: This project provides a high degree of mitigation to reduce flood losses and improve public safety. x Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: Repairs may include facilities originally constructed by King County, with an indefinite obligation for maintenance. x Funding or partnership opportunities: A funding match of 25-50%by the property owner may be appropriate. Project can be combined with habitat improvements, funded through other sources.	
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal) x_ 0-2 years 3-6 years 6+ years	

^{21.} Is the project identified within an adopted local hazard mitigation plan?

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<u>x</u>	_ Yes _ No
22. Do	property interests need to be acquired (fee simple or easement) for this project?
_	Yes (easements for construction and future maintenance are recommended) No
_	roperty interests need to be acquired, is the landowner willing to sell or sign a voluntary or of agreement, expressing an interest in selling necessary property interests?
X	Yes (voluntary participation will be required for participation in this program) No

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GENERAL INFORMATION

1.	Project Name: 5050 West Lake Sammamish Parkway Culvert Replacement
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$\$534,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: N/A
- 8. Right bank, Left bank, or Both banks: N/A
- **9. Jurisdiction(s):** City of Redmond
- 10. Public or Private lands: Public Right-of-Way
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

12. What's At Risk:

A major street is at risk of flooding

13. Problem Statement:

This Class 2 stream is conveyed in a structural plat pipe-arch culvert with a 6-ft span and 4 ½ foot rise and is approximately 67 feet in lenth. During heavy rains, the culvert exceeds capacity and the inlet periodically clogs with debris and sediment threatening to flood across West Lake Sammamish Parkway. This is partially due to the large sediment source upstream, the capacity of the culvert, and the hydraulics through the culvert. The road flooded in 1982, 2003, and 2004.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

14. Proposed Project or Action:

Replace the culvert with one that has adequate capacity, is fish passable, allows debris to pass through and is extended beyond the edge of pavement. Realignment of the culvert and or stream may be needed.

15. Project Benefits:

Reduced maintenance visits, reduced flooding of major roadway, improved safety, improved fish passage.

16. Coordination Needs:

The project would require design by an outside consultant. Permitted would include City of WSDFW, USACE, and WSDOE.

17. Other Information or Needs:

Design Plans and Contract documents

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

18. Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project and

	include a brief description of the risk.
19.	X Threats to public safety: Flooding roadways constitute a hazard for drivers Damage to public infrastructure: Impacts on the regional economy: Damage to private structures: . Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Flooding of a major roadway will continue during heavy rain. Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: Coordination with City of Redmond transportation CIP to widen West Lake Sammamish Parkway (proposed 2008).
20.	. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	X 0-2 years 3-6 years 6+ years

^{21.} Is the project identified within an adopted local hazard mitigation plan?

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	Yes
	No
	The City of Redmond's Flood Hazard Management Plan is under development
22	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes
	X No
23	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary
	letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No
	.N/A.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

_	Project Name: 95 th St Trunk
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$1,122,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD

LOCATION INFORMATION

____ \$ 0

- 7. Downstream River Mile # to Upstream RM #: N/A
- 8. Right bank, Left bank, or Both banks: N/A
- **9. Jurisdiction(s):** City of Redmond
- **10. Public or Private lands:** The flooding occurs on private property, however the solution would be within public right-of-way.
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

12. What's At Risk:

Several commercial parking lots

13. Problem Statement:

Many private parking lots are subject to frequent nuisance flooding due to general system back up.

14. Proposed Project or Action:

It is believed that a larger storm truck would solve the problem when the Sammamish River is not at flood stage. Once the river elevation is too high, only a pumped system would solve the problem. Actions needed include modeling the watershed to determine which pipes may be undersized, evaluate whether a flap gate is appropriate to prevent backwater, and evaluate the feasibility of pumped system.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

15. Project Benefits:
Eliminate flooding
16. Coordination Needs:
Since most of proposed work is located within the public right-of-way of NE 95 th St, little coordination i needed.
17. Other Information or Needs:
Stormwater modeling of watershed, feasibility study for pump system.
PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)
18. Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
Threats to public safety: Damage to public infrastructure:X Impacts on the regional economy: Local businesses could lose business opportunities as a result of flooded parking lots Damage to private structures: 19. Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Local business will continue to experience flooding. Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: Funding or partnership opportunities could result in City Council approval of this unfunded project
20. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal
0-2 years 3-6 years 6+ years
21. Is the project identified within an adopted local hazard mitigation plan? —— Yes No

The City of Redmond Flood Hazard Management Plan is in development

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

22.	Do p	roperty	interests n	eed to be acc	quired (fee s	imple or ea	sement) for	this project:	?
		Yes							
	_X _	No							
23.	-			ed to be acq pressing an i	•			ell or sign a v ty interests?	oluntary
		Yes							

GENERAL INFORMATION			
1	Project Name	West Education Hill Stream Relocation and Frosion Rena	ir

6. What's At Risk:

1.	Project Name: West Education fill Stream Relocation and Erosion Repair
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
1.	Total Estimated Project Cost (all phases): \$300,000
2.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0
	OCATION INFORMATION Downstream River Mile # to Upstream RM #:
2.	Right bank, Left bank, or Both banks: Both Banks
3.	Jurisdiction(s): City of Redmond
4.	Public or Private lands: The flooding occurs on private property, and it is likely that proposed solution would be on public private property.
5.	Agriculture Production District or Farmland Preservation Program lands: yes/ <u>no</u> /do not know
PR	ROJECT INFORMATION

An apartment complex is at risk of flooding the main floor of the building.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

7. Problem Statement:

This Class IV stream parallels a retaining wall above an adjacent apartment complex. Sediment form upstream is erosion and aggrading the channel next to the retaining wall. During heavy rain, the stream jumps its banks and flows over the retaining wall into the apartment complex, up to the buildings foundation.

8. Proposed Project or Action:

Address the eroding banks upstream through bank stabilization techniques such as grade control structures, vegetation and large wood debris. Relocate the lower portion of the stream away from the top of the retaining wall. Redesign the inlet to the storm system to give the floodway an exit.

9. Project Benefits:

Reduced flooding impacts, reduced stream erosion, Improved riparian buffer, and reduced maintenance calls.

10. Coordination Needs:

Coordination with private property owners will be needed for acquisition or right-of-entry.

11. Other Information or Needs:

Stream assessment, biological evaluation, USACE permit. HPA (WSDFW)

12. Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project an include a brief description of the risk.	d
Threats to public safety: Damage to public infrastructure: X Impacts on the regional economy: Local landlord could lose their ability to rent the apartment. Displaces renters could have indirect impact on economy. Damage to private structures:	
13. Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.	
 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Apartment building may flood Urgency, where urgency is a measure of how quickly an action needs to be taken in ord to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contract relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: Funding or partnership opportunities could resul City Council approval of this unfunded project. 	ual

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

14.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal
	0-2 years 3-6 years 6+ years
15.	Is the project identified within an adopted local hazard mitigation plan?
	Yes No The City of Redmond's Flood Hazard Management Plan is in development
16.	Do property interests need to be acquired (fee simple or easement) for this project?
	_X Yes No
17.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes No Don't know.

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GENERAL INFORMATION

1. Project Name: Evans Creek Relocation

2. Project Proponent (Name and Agency): City of Redmond

3. Basin/Watershed: Sammamish

1.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type
	description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
	Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
	X Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$1,975,000
5.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or
	proposed, if not known:
	\$ TBD. Project is approved in 2007 -2012 Stormwater Capital Improvement budget

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #:
- 8. Right bank, Left bank, or Both banks: Both banks
- **9. Jurisdiction(s):** City of Redmond
- 10. Public or Private lands: Private land
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

12. What's At Risk:

In the event of flooding, several large industrial sites have the potential to introduce pollutants including hazardous materials.

13. Problem Statement:

This Class I stream has been heavily impacted by industrial development. Buffers are narrow, with limited trees and almost no conifers. This exposes the stream channel to more sunlight and does not provide adequate large conifers for large woody debris recruitment. Poor management practices adjacent to the stream are impacting water quality. The County and Army Corps of Engineers have proposed extensive channel and buffer enhancements upstream. This large basin appears capable of supporting good salmon runs and quality riparian habitat for other wildlife. The stream serves a basin area of over 1,000 acres. The stream and buffer are impacted and have encroached upon.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

14. Proposed Project or Action:

If possible, relocate stream to the north, away from industrial properties. Install in-stream structures and plant native vegetation within buffer. If relocation is not possible, this project would be revised to enhancing the existing buffer and channel through planting and placing in-stream habitat.

15. Project Benefits:

Improved riparian and wetland habitat for fish and wildlife including off-channel habitat for salmon & trout, improved in-stream conditions for adult and outmigrating juvenile salmon, decrease risk of water quality degradation due to pollution and contaminants.

16. Coordination Needs:

Some coordination with future and existing property owners will be needed. Coordination with proposed development may be warranted.

17. Other Information or Needs:

A feasibility study to determine whether it is possible to relocate the stream, design, contract documents.

18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	X_ Threats to public safety: Damage to public infrastructure: Impacts on the regional economy: Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Threats to public safety include the risk of contamination and pollution from industrial site along the banks of Evans Creek. Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: Funding or partnership opportunities could result in City Council approval of this unfunded project
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years _X_ 3-6 years 6+ years

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

21.	Is the project identified within an adopted local hazard mitigation plan?
	Yes
	No
	The City of Redmond Flood Hazard Management Plan is in development
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	X Yes
	No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No
	Not yet known

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

	Project Name: Friendly Village
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$\$110,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0
	CATION INFORMATION Downstream River Mile # to Upstream RM #:
8.	Right bank, Left bank, or Both banks: Both banks
9.	Jurisdiction(s): City of Redmond
10.	Public or Private lands: Private
11.	Agriculture Production District or Farmland Preservation Program lands: yes/ <u>no</u> /do not know

PROJECT INFORMATION

12. What's At Risk:

Residential property is at risk of erosion and flooding.

13. Problem Statement:

Bear creek is a shoreline of the state. The section through the mobile home park has little or no riparian buffer because lawns have been mowed up to the edge of the stream banks. There is very little streambank vegetation for shade, habitat or bank retention. Erosion and high flows are issues along this 2,000 lineal feet of stream.

14. Proposed Project or Action:

Amend the soil and/or apply much as needed. Using erosion control and biostabilization methods to stabilize exposed soils and mulch. Replant the riparian buffers with naïve vegetation consisting primarily

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

of attractive native trees and shrubs, considering both habitat and aesthetics. Possibly install buffer fencing as needed to discourage encroachment into the buffer.

15. Project Benefits:

Restore riparian buffer function, enhance instream habitat with large woody debris, reduce erosion of streambanks.

16. Coordination Needs:

Some coordination with private property owners will be needed for acquisition or right-of-entry. Permit and approval will be needed from City of Redmond Planning Department and WSDFW and USACE for any work within the ordinary high water mark.

17. Other Information or Needs:

Design plans and contract documents

18.	Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	Threats to public safety: Damage to public infrastructure: Impacts on the regional economy:X Damage to private structures: Several residential properties are at risk of erosion and flooding. Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed
	project and include a brief description of the risk.
	 The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: X_ Funding or partnership opportunities: Funding or partnership opportunities could result in City Council approval of this unfunded project
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	Yes
	No

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

The City of Redmond's Flood Hazard Management Plan is in development

22.	Do property interests need to be acquired (fee simple or easement) for this project?
	X YesNo
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary
23.	letter of agreement, expressing an interest in selling necessary property interests?
23.	

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

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1. Project Name: NE 105th St @ 170th Ave NE 2. Project Proponent (Name and Agency): City of Redmond 3. Basin/Watershed: Sammamish 4. Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X Sub-regional project proposal, not currently on the draft KC FCZD CIP list, 5. Total Estimated Project Cost (all phases): \$33,000

6.	Proposed Local Share (if sub-regional project).	Provide other actual local share if known or
	proposed, if not known:	
	\$ TBD	
	\$ 0	

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: N/A
- 8. Right bank, Left bank, or Both banks: N/A
- **9. Jurisdiction(s):** City of Redmond
- 10. Public or Private lands: Public right-of-way
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

12. What's At Risk:

Ponding water in the street is a safety risk for motorist and the community neighborhood

13. Problem Statement:

The cul-de-sac at the east end of 1054th St is extremely flat with tow catch basins near the intersection with 170th Ave NE. During heavy rains stormwater collects in the roadway creating a ponding area up to 40 feet in length. During winter months, large icy patches form in the roadway and on the sidewalk. Saturated conditions have also caused the curb, gutter, sidewalk and existing catch basin to settle significantly.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

14. Proposed Project or Action:

Extend the conveyance system with 8-12 inch diameter pipe to pick up all low areas. New inlets and catch basins will be needed on both side of NE 105th St. Replace the existing damaged curb, gutter, and sidewalk.

15. Project Benefits:
Improve safety for motorist
16. Coordination Needs: No coordination is anticipated.
17. Other Information or Needs: Design plans and contract documents
PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)
18. Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
 _X Threats to public safety: Ponding water and ice in the roadway and sidewalks is a threat to motorist and pedestrians. _X Damage to public infrastructure: The ponding water is saturating the pavement and subgrade causing the sidewalk, gutter and curb to settle Impacts on the regional economy: Damage to private structures: 19. Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
_X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Public safety is at risk due to ice and water in the roadway and sidewalks. Damage to the pavements, gutter, and sidewalk will result if the ponding water continues to saturate the subgrade. Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: City Council may approve funding for this project if there were funding or partnership opportunities.
 20. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal) 0-2 years 3-6 years 6+ years

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

21.	Is the project identified within an adopted local hazard mitigation plan?
	Yes No
	The City of Redmond's Flood Hazard Management Plan is in development.
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes X No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No
	N/A

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

1.	Project Name: North Overlake Conveyance and Detention
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$3,080,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD

LOCATION INFORMATION

\$0

- 7. Downstream River Mile # to Upstream RM #: N/A
- 8. Right bank, Left bank, or Both banks: N/A
- 9. Jurisdiction(s): City of Redmond
- **10. Public or Private lands:** A portion of the project is in public right-of-way and a portion is on private property
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

12. What's At Risk:

Two commercial parking lots are at risk of flooding

13. Problem Statement:

The neighborhood off 150th Ave NE between NE 40th St and NE 51st St is subject to flooding in large storm events. Some areas have detention, but are the conveyance system is overwhelmed when large storm bypass the ponds and vaults. Two areas, known as Overlake North, have parking lot detention facilities that are "on line". With increasing development in the basin, the parking lots fill up more frequently that they were designed to. Another area, Nintendo, has a detention pond that receives more flow than it was designed for. Some of that flow is due to undetained flows from a public street that was supposed to be diverted by a WSDOT swale along 520.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

14. Proposed Project or Action:

Construct a new stormtrunk along NE 150th St to carry stormwater to NE 51st St, bypassing the Nintendo on-site parking lot. The potential for regional detention in this area should be considered.

15. Project Benefits:

The public storm system will adequately convey the 10 year storm event minimizing flooding. Improvements to water quality will be realized if regional detention is included.

16. Coordination Needs:

Any work on private property will need to be coordinated with the property owner. A consultant would be hired for design and contract documents.

17. Other Information or Needs: The system need to be analyzed to determine the frequency of flooding of the Nintendo parking area and to determine drainage patterns along 150th Ave NE.

18	• Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19	Threats to public safety: Damage to public infrastructure:X_ Impacts on the regional economy: Local businesses could lose business opportunities as a result of flooding Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X_ Funding or partnership opportunities: Additional funding or partnership opportunities would allow this project to be constructed ahead of schedule and provide additional benefits, such as improved water quality treatment.
20	. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years _X 3-6 years

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

21.	Is the project identified within an adopted local hazard mitigation plan?
	Yes
	No The City of Redmond's Flood Hazard Management Plan is in development.
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	X Yes No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No
	Not known

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	ENERAL INFORMATION Project Name: Oakridge Swale		
1.	Project Proponent (Name and Agency): City of Redmond		
2.	Basin/Watershed: Sammamish		
2.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list, 		
3.	Total Estimated Project Cost (all phases): \$835,500		
4.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD - This project is approved in the 2007-2012 Capital Improvement Plan \$ 0		
_	OCATION INFORMATION		
5.	Downstream River Mile # to Upstream RM #:		
6.	Right bank, Left bank, or Both banks:		
7.	Jurisdiction(s): City of Redmond		
8.	Public or Private lands: The flooding occurs on private property, and it is likely that proposed solution would be on public (including Marymoor Park) and private property.		

9. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

10. What's At Risk:

A large commercial parking lot that serves several businesses.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

11. Problem Statement:

This parking lot floods frequently and causes problems for access to loading docks and building entrances. This is the downstream end of the drainage basin that includes city roads and private drainage. Water historically discharged to an infiltration swale. However this swale has not been maintained enough to accommodate new development in the basin.

12. Proposed Project or Action:

Remove the soils from the existing swale. Deepen it and extend it about 3000 feet to Lake Sammamish to prevent flooding. Amend the swale with compost. Some sections of the project may impact wetlands so wetland mitigation would be required.

13. Project Benefits:

Reduced flooding, possible wetlands mitigation

14. Coordination Needs:

Some coordination with private property owners and King County Department of Natural Resources (Parks) may be needed for acquisition or right-of-entry. Permitting through King County DDES permits will be required since a portion of the swale would need to be in Marymoor Park.

15. Other Information or Needs:

None anticipated.

•	2 Flood Risks : please check all that apply, as to be addressed by the proposed project and brief description of the risk.
	Threats to public safety:
	Damage to public infrastructure:
X	Impacts on the regional economy: Local businesses could lose business opportunities and
delive	ery as a result of flooded parking lots.
	Damage to private structures:
	ROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed d include a brief description of the risk.
_X	The consequences that will result if no action are taken. Consequences should be prioritized as identified in Policy G-2:
	Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse:
	Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility:
_X	Funding or partnership opportunities:
17. Policy PR project and _X	Damage to private structures: ROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed d include a brief description of the risk. The consequences that will result if no action are taken. Consequences should be prioritized as identified in Policy G-2: Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractor relationship between King County and another person or agency to maintain a flood protection facility:

^{18.} Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	0-2 years
	3-6 years
	_X 6+ years
19.	Is the project identified within an adopted local hazard mitigation plan?
	Yes
	No
	The City of Redmond's Flood Hazard Management Plan is in development.
20.	Do property interests need to be acquired (fee simple or easement) for this project?
	_X Yes
	No
21.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary
	letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No No
	Don't know.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	ENERAL INFORMATION Project Name: Upper "Braeburn" Creek
1.	Project Proponent (Name and Agency): City of Redmond
2.	Basin/Watershed: Sammamish
2.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
3.	Total Estimated Project Cost (all phases): \$396,000
4.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known:

LOCATION INFORMATION

____ \$ TBD ____ \$ 0

- 5. Downstream River Mile # to Upstream RM #:
- 6. Right bank, Left bank, or Both banks: Both Banks
- 7. **Jurisdiction(s):** City of Redmond
- 8. Public or Private lands: The flooding occurs on private property.
- 9. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

PROJECT INFORMATION

10. What's At Risk:

Public safety is at risk and the possibility of a private residence.

11. Problem Statement:

During high flows, the inlet to the culvert under NE 24th St. Clogs with debris and this class 3 stream mearly floods the yard of one private residence. Foolding of the residual property constitures a public safety concern because of the depth and velocity of the stream as it enters the storm system.

12. Proposed Project or Action:

Construct an overlow structure at inlet to culvert. Stabilze the banks and enhance buffer through strambnak planting. Add roughness features to dissipate energy. Install streamside fencing.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

13. Project Benefits:

Improved habitat for bires and wildlife within the project ara, improved aesthetics, reduced maintenance visites, Improved riparian buffer function, reduced flooding impacts to private proerty, improved safety conditions, increased stewardship of stream corridor.

14. Coordination Needs:

Coordination with private property owners will be needed for acquisition or right-of-entry.

15. Other Information or Needs:

Stream assessment, HPA (WSDFW). Biological evaluation and USACE Nationwide permit may be needed depending upon extent of instream work.

16.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
	X Threats to public safety: Damage to public infrastructure: Impacts on the regional economy: Local landlord could lose their ability to rent the apartment. Displaces renters could have indirect impact on economyX Damage to private structures:
17.	Policy PROJ-1 Prioritizing Flood Risks : please check all that apply, associated with proposed project and include a brief description of the risk.
	 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: _X_ Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: _ Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _ X_ Funding or partnership opportunities:
	If no action is taken, the stream could flood the private residence. Loss of life could occur if a person where to enter the stream during high flows and get swept into the culvert.
18.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
19.	Is the project identified within an adopted local hazard mitigation plan?
	Yes No

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

The City of Redmond's Flood Hazard Management Plan is under development.

20	. Do property interests need to be acquired (fee simple or easement) for this project?
	_X Yes No
21	. If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	_X Yes No

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

CENER	ΔT.	INFOR	RMATION

1.	Project Name: West Education Hill Stream Relocation and Erosion Repair	
1.	Project Proponent (Name and Agency): City of Redmond	
2.	Basin/Watershed: Sammamish	
2.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list, 	
3.	Total Estimated Project Cost (all phases): \$300,000	
4.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0	
	CATION INFORMATION Downstream River Mile # to Upstream RM #:	
6.	Right bank, Left bank, or Both banks: Both Banks	
7.	Jurisdiction(s): City of Redmond	
8.	Public or Private lands: The flooding occurs on private property, and it is likely that proposed solution would be on public private property.	
9.	Agriculture Production District or Farmland Preservation Program lands: yes/ <u>no</u> /do not know	
PROJECT INFORMATION 10. What's At Risk:		

An apartment complex is at risk of flooding the main floor of the building.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

11. Problem Statement:

This Class IV stream parallels a retaining wall above an adjacent apartment complex. Sediment form upstream is erosion and aggrading the channel next to the retaining wall. During heavy rain, the stream jumps its banks and flows over the retaining wall into the apartment complex, up to the buildings foundation.

12. Proposed Project or Action:

Address the eroding banks upstream through bank stabilization techniques such as grade control structures, vegetation and large wood debris. Relocate the lower portion of the stream away from the top of the retaining wall. Redesign the inlet to the storm system to give the floodway an exit.

13. Project Benefits:

Reduced flooding impacts, reduced stream erosion, Improved riparian buffer, reduced maintenance calls.

14. Coordination Needs:

Coordination with private property owners will be needed for acquisition or right-of-entry.

15. Other Information or Needs:

Stream assessment, biological evaluation, USACE permit. HPA (WSDFW)

-	pod Risks : please check all that apply, as to be addressed by the proposed project and description of the risk.
Dai X Imp apartment	eats to public safety: mage to public infrastructure: acts on the regional economy: Local landlord could lose their ability to rent the Displaces renters could have indirect impact on economy. mage to private structures:
•	1 Prioritizing Flood Risks: please check all that apply, associated with proposed clude a brief description of the risk.
pri	the consequences that will result if no action is taken. Consequences should be pritized as identified in Policy G-2: gency, where urgency is a measure of how quickly an action needs to be taken in order
to	prevent a risk from growing worse:
rela	gal responsibility and authority, where legal responsibility and authority is a contractual ationship between King County and another person or agency to maintain a flood tection facility:
	nding or partnership opportunities: City Council may approve funding for this project
if there we	re funding or partnership opportunities.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

18.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal		
	0-2 years 3-6 years 6+ years		
19.	Is the project identified within an adopted local hazard mitigation plan?		
	Yes No The City of Redmond's Flood Hazard Management Plan is in development.		
20.	Do property interests need to be acquired (fee simple or easement) for this project?		
	_X Yes No		
21.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?		
	Yes No Don't know.		

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

CENER	ΔT.	INFOR	RMATION

1.	Project Name: Willows Business Park at 152 th Ave NE
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$132,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0
	CATION INFORMATION Downstream River Mile # to Upstream RM #:
8.	Right bank, Left bank, or Both banks:
9.	Jurisdiction(s): City of Redmond
10.	Public or Private lands: The flooding occurs on private property.
11.	Agriculture Production District or Farmland Preservation Program lands: yes/ <u>no</u> /do not know
	ROJECT INFORMATION What's At Risk:

13. Problem Statement:

Many private parking lots are subject to frequent nuisance flooding due to general system back up.

14. Proposed Project or Action:

Several commercial parking lots

Proposed actions include evaluating the feasibility of providing detention upstream, constructing channel improvements upstream to reduce the transport of sediment to the lower reaches, constructing flood protection measures on site, such as a berm/or dike.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

15. Project Benefits:

Reduced flooding

16. Coordination Needs:

This project may need to be coordinated with other CIP project along Willows and Peters Creeks. Some coordination with private property owners and Puget Sound Energy may be needed for acquisition or right-of-entry.

17. Other Information or Needs:

Stormwater modeling of watershed, feasibility study for detention.

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
	Threats to public safety: Damage to public infrastructure:X Impacts on the regional economy: Local businesses could lose business opportunities as a result of flooded parking lots Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: City Council may approve funding for this project if there were funding or partnership opportunities.
20. <i>A</i>	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
_	0-2 years 3-6 years 6+ years
21. 1	Is the project identified within an adopted local hazard mitigation plan?
-	Yes No
-	No The City of Redmond's Flood Hazard Management Plan is in development.

22. Do property interests need to be acquired (fee simple or easement) for this project?

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

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** This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

CENER	ΔT.	INFOR	MATION

1.	Project Name: Willows Business Park at 152 Ave NE
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list X_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$132,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0
	CATION INFORMATION Downstream River Mile # to Upstream RM #:
8.	Right bank, Left bank, or Both banks:
9.	Jurisdiction(s): City of Redmond
10.	Public or Private lands: The flooding occurs on private property.
11.	Agriculture Production District or Farmland Preservation Program lands: yes/ <u>no</u> /do not know
	OJECT INFORMATION What's At Risk:
Sev	veral commercial parking lots

13. Problem Statement:

Many private parking lots are subject to frequent nuisance flooding due to general system back up.

14. Proposed Project or Action:

Proposed actions include evaluating the feasibility of providing detention upstream, constructing channel improvements upstream to reduce the transport of sediment to the lower reaches, constructing flood protection measures on site, such as a berm/or dike.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

15. Project Benefits	15.	Proj	ject	Ben	efits
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Reduced flooding

16. Coordination Needs:

This project may need to be coordinated with other CIP project along Willows and Peters Creeks. Some coordination with private property owners and Puget Sound Energy may be needed for acquisition or right-of-entry.

17. Other Information or Needs:

Stormwater modeling of watershed, feasibility study for detention.

18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	Threats to public safety: Damage to public infrastructure:X Impacts on the regional economy: Local businesses could lose business opportunities as a result of flooded parking lots Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: City Council may approve funding for this project if there were funding or partnership opportunities.
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	Yes No The Given f Red and Park Florid Hereal Management Planting in the development
	The City of Redmond's Flood Hazard Management Plan is in development.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

22.	Do property interests need to be acquired (fee simple or easement) for this project?
	_X Yes
	No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No

GENERAL INFORMATION

1.	Project Name: Willows Creek at Puget Sound Energy Substation
2.	Project Proponent (Name and Agency): City of Redmond
3.	Basin/Watershed: Sammamish
4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP listX_ Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$913,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ TBD \$ 0
LC	OCATION INFORMATION
	Downstream River Mile # to Upstream RM #:
8.	Right bank, Left bank, or Both banks: Both banks
9.	Jurisdiction(s): City of Redmond

11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know

10. Public or Private lands: The stream flows through Puget Sound Energy property but the flooding

PROJECT INFORMATION

occurs on private property.

12. What's At Risk:

A commercial parking lot is at risk of flooding

13. Problem Statement:

This low gradient reach of stream is aggrading from sediment sources upstream. There is no longer a defined channel. As a result, thick mats of grass form and the channel braids and changes course. The commercial parking lot to the east has flooded during one migration. It also creates a fish passage challenge.

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14. Proposed Project or Action:

The upstream sediment source is being addressed through a City of Redmond Capital Improvement Project currently under construction. Confine the channel using large woody debris and rock to increase stream velocity. Plant low and shrubby vegetation to shade out Reed Canary grass.

15. Project Benefits:

Reduced flooding of one commercial parking lot, improve habitat and fish passage

16. Coordination Needs:

No coordination is needed outside of access and design considerations.

17. Other Information or Needs: Stormwater modeling of watershed

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	Threats to public safety: Damage to public infrastructure:X_ Impacts on the regional economy: The commercial property could be impacted by loss of business, delivery and production during flooding Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 _X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: The parking lot may continue to flood impacting local businesses. Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _X Funding or partnership opportunities: Partnership opportunities could result in City Council approval of this unfunded project.
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	Yes No
	The City of Redmond's Flood Hazard Management Plan is in development

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

22	Do property interests need to be acquired (fee simple or easement) for this project?
	X_ Yes
	No
23	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes
	No
	110

GENERAL INFORMATION

- 1. Project Name: Carco Theater Flood Hazard Reduction Project
- 2. Project Proponent City of Renton:
- 3. Basin/Watershed: Cedar River

4.	 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$500,000
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known:

LOCATION INFORMATION

\$0

- 7. Downstream River Mile # to Upstream RM #: RM 1.6 to approximately RM 1.9
- 8. Right bank, Left bank, or Both banks: Right Bank
- 9. Jurisdiction(s): Renton King County upstream
- 10. Public or Private lands: Public lands
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know NO

PROJECT INFORMATION

12. What's At Risk:

During floods equal to or greater than 50-yr events (> 8000 cfs), the Carco Theater and Renton Community Center at 1717 and 1715 Maple Valley Hwy are flooded and damaged. The Carco Theater had water inside the building during the 1990 flood (10,600 cfs) and suffered flood damages. Flood fighting efforts during other floods has prevented the damage from reoccurring.

13. Problem Statement:

Flooding of building due to high flows that case drainage system back-up or over bank flows to flood the building.

14. Proposed Project or Action:

Construct a setback levee to protect the building from damages and modify storm systems that surcharge during flood events to prevent surcharging back into the building.

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

15. Project Benefits: Protects
The project would prevent damage to a public facility and prevent damages from re-occurring.

16. Coordination Needs:

Coordination would be needed with the City of Renton Community Services Department

17. Other Information or Needs:

A more detailed investigation of the scope, cost and alternatives to protecting the facility is needed. **PROJECT PROPOSAL CRITERIA AND POLICY BASIS** (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

•	,
18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	X Threats to public safety:X_ Damage to public infrastructure: Impacts on the regional economy: Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 X_ The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: _X Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _ Funding or partnership opportunities:
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years 3-6 years 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	X Yes No
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes X No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests? _NA Yes

 No	ū	•	

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

- 1. Project Name: Cedar River Bridge Flood Reduction Project
- 2. Project Proponent City of Renton:
- 3. Basin/Watershed: Cedar River

4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type description.
	Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list X. Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list Sub-regional project proposal, not currently on the draft KC FCZD CIP list,
5.	Total Estimated Project Cost (all phases): \$2,500,000 (cost to elevate 5-bridges only)
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: RM 1.0 to approximately RM 1.6
- 8. Right bank, Left bank, or Both banks: Both Banks
- 9. Jurisdiction(s): Renton King County upstream
- 10. Public or Private lands: Public lands
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know NO

PROJECT INFORMATION

12. What's At Risk:

The Logan Ave N, Williams Avenue N, Wells Avenue N, Bronson Avenue N and Houser Avenue N bridges over the Cedar River in downtown Renton are impinged upon during floods During floods equal to or greater than 50-yr events (> 8000 cfs). This results in higher upstream water surface elevations that impact upstream flooding and could result in damages to the bridge structures or the loss of the bridge during a major flood. During past floods these bridges have been shut down to traffic due to the safety hazard and have suffered damages. This has resulted in significant traffic impacts and economic impacts to surrounding business and industrial businesses in the area who's employees use the bridges,

13. Problem Statement:

During flood events the low chord of the bridges block flow and case an increase is the upstream water surface elevation. This presents a safety hazard to the public and could result in damages to the bridges and or their use, which would impact traffic and the economy. The 100-year flood discharge for the Cedar River has been increased to 12,000 cfs from the previous FEMA 100-yr flood discharge of

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approximately 8,500 cfs. These bridges were all designed and constructed based upon the old FEMA 100-yr floodplain maps and flood discharge of 8,500 cfs.

14. Proposed Project or Action:

As part of the bridge replacement in the future, a share of the cost to reconstruct the bridges to an elevation above the new floodplain elevation would be funded from the District. Due to the fact that these bridges are now within the floodway, the need to replace them, to prevent their damage or loss during a flood, may have to be done earlier than the normal bridge replacement schedule. The funding would only be for a proportionate share of the total bridge replacement cost (assumed to be \$500,000 per bridge for FCZD budgeting purposes)

15. Project Benefits: Protects

The project would prevent damage to public bridges, reduce impacts to traffic and business during flood events. These bridges are at risk of damage to the point where they could not be in use following a flood, which would cause long-term impacts to traffic and businesses. By raising the bridges above the base flood (12,000 cfs) elevation it will reduce upstream water surface elevations and upstream flood hazards also.

16. Coordination Needs:

Coordination would be needed with the City of Renton Transportation Division and WSDOT.

17. Other Information or Needs:

A more detailed investigation of the scope, cost and alternatives to protecting the bridges are needed. **PROJECT PROPOSAL CRITERIA AND POLICY BASIS** (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

include a brief description of the risk.
X Threats to public safety: Damage to public infrastructure: Impacts on the regional economy:X Damage to private structures: 19. Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
 X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: _X_ Urgency, where urgency is a measure of how quickly an action needs to be taken in orde to prevent a risk from growing worse: _ Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _ Funding or partnership opportunities:
20. Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal
0-2 years

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	3-6 years
	X 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	X Yes
	No
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes
	X No
22	If we want interests wood to be accretized in the landermore willing to call an sign a walker to we
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	NA Yes
	No
	Don't Know

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

Project Name: Renton Old City Hall Building Flood Protection Project
 Project Proponent City of Renton:
 Basin/Watershed: Cedar River
 Project Type: check all that apply. See Criteria/Policy Handout for additional project type description.

 Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
 Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
 Sub-regional project proposal, not currently on the draft KC FCZD CIP list,

 Total Estimated Project Cost (all phases): \$750,000
 Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known:

LOCATION INFORMATION

- 7. Downstream River Mile # to Upstream RM #: RM 1.5 to approximately RM 1.6
- 8. Right bank, Left bank, or Both banks: Left Bank
- 9. Jurisdiction(s): Renton King County upstream
- 10. Public or Private lands: Public lands
- 11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know NO

PROJECT INFORMATION

12. What's At Risk:

During floods equal to or greater than 50-yr events (> 8000 cfs), the Old Renton City Hall building at 200 Mill Avenue South is flooded. The lowest floor of the building and parking lot is flooded. The City building had floodwater inside of it during the 1990 flood (10,600 cfs) and suffered flood damages. Flood fighting efforts during other floods has prevented the damage from reoccurring. A small wall was build in the 1990's to provide additional protection, but may not be sufficiently high enough to protect the building during the revised 100-yr flood flow of 12,000 cfs.

13. Problem Statement:

Flooding of building due to high flows that overtop existing wall and case storm drainage system surcharging behind the wall that result in flooding into the building.

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14. Proposed Project or Action:

Reconsturct or modify existing wall to increase height and include required freeboard so the wall can be FEMA certified as a floodwall. Modify onsite storm system to prevent surcharging during high flows and flooding behind the wall. Alternatively, a levee could be reconstructed by removing gabions, if sufficient space is available to meet levee design standards and FEMA levee Certification requirements. This alternative would result in fish habitat improvements if planting and LWD could be incorporated into the project and still meet FEMA levee Certification requirements.

15. Project Benefits: Protects

The project would prevent damage to a public building and prevent damages from re-occurring. Habitat improvement could be also incorporated into the project if FEMA levee or floodwall certification requirements could be also achieved and maintained.

16. Coordination Needs:

Coordination would be needed with the City of Renton Community Services Department.

17. Other Information or Needs:

A more detailed investigation of the scope, cost and alternatives to protecting the facility is needed. **PROJECT PROPOSAL CRITERIA AND POLICY BASIS** (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

18.	• Policy G-2 Flood Risks: please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	X Threats to public safety:X_ Damage to public infrastructure: Impacts on the regional economy: Damage to private structures: . Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 X_ The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: _X Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: Funding or partnership opportunities:
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	0-2 years X 3-6 years 6+ years
21.	. Is the project identified within an adopted local hazard mitigation plan?X Yes

	No
22.	Do property interests need to be acquired (fee simple or easement) for this project?
	Yes
	X No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	_NA Yes No

GENERAL INFORMATION

1.	Project Name: Riviera Apartments set-back levee				
2.	Project Proponent City of Renton:				
3.	Basin/Watershed: Cedar River				
4.	Project Type: check all that apply. See Criteria/Policy Handout for additional project type description. Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP listX Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list Sub-regional project proposal, not currently on the draft KC FCZD CIP list,				
5.	Total Estimated Project Cost (all phases): \$2,500,000				
6.	Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known: \$ \$ 0				
	CATION INFORMATION Downstream River Mile # to Upstream RM #: RM 2.1 to approximately RM 2.5				
8.	Right bank, Left bank, or Both banks: Right Bank				
9.	Jurisdiction(s): Renton – King County upstream				
10.	Public or Private lands: Private lands				
11.	Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know NO				

PROJECT INFORMATION

12. What's At Risk:

During floods equal to or greater than 50-yr events (> 8000 cfs), the units in the existing apartment buildings closest to the river are flooded. The Riviera Apartments are located at 2205 Maple Valley Hwy. The lowest floor of the apartments and parking lot are flooded. The apartment units were flooded during the 1990 flood (10,600 cfs) and suffered flood damages. Residents had to be evacuated and placed into shelters. Flood fighting efforts during other floods has prevented the damage from reoccurring.

13. Problem Statement:

Flooding of building due to high flows that overtop existing river bank results in flooding into the apartment buildings.

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14. Proposed Project or Action:

Construct a setback levee that is FEMA certified to protect buildings and could include fish habitat improvements, if Levee certification can be still be achieved. Alternatively the building can be elevated or bought out. If the site is redeveloped in the future, the possibility exists to get the redevelopment project to construct building at an elevation that prevents them from flooding (1-ft above 100-yr base flood elevation – Renton Standard).

15. Project Benefits: Protects

The project would prevent damage to private buildings and prevent damages from re-occurring, which impacts the residents of the apartment units. Habitat improvement could be also incorporated into the project if FEMA levee certification requirements could be also achieved and maintained.

16. Coordination Needs:

Coordination would be needed with the City of Renton, private property owners and apartment resident..

17. Other Information or Needs:

A more detailed investigation of the scope, cost and alternatives to protecting the facility is needed. **PROJECT PROPOSAL CRITERIA AND POLICY BASIS** (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

lδ.	include a brief description of the risk.
19.	X Threats to public safety: Damage to public infrastructure: Impacts on the regional economy:X Damage to private structures: . Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 X The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: _X_ Urgency, where urgency is a measure of how quickly an action needs to be taken in orde to prevent a risk from growing worse: _ Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: _ Funding or partnership opportunities:
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal
	0-2 years 3-6 years X 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan? X Yes No

22	. Do property interests need to be acquired (fee simple or easement) for this project?
	X Yes
	No
23	. If property interests need to be acquired, is the landowner willing to sell or sign a voluntary
	letter of agreement, expressing an interest in selling necessary property interests?
	letter of agreement, expressing an interest in selling necessary property interests?

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

GENERAL INFORMATION

1. Project Name:

May Creek Basin

2. Project Proponent (Name and Agency):

3. Basin/Watershed:

May Creek Basin. Cedar-Lake Washington Watershed.

4. Project Type: check all that apply. See Criteria/Policy Handout for additional project type description.
 Proposed supplement to an existing project, identified as part of the Draft KC FCZD CIP list
 Newly identified major river flood CIP, not currently on the Draft KC FCZD CIP list
 XXX Sub-regional project proposal, not currently on the draft KC FCZD CIP list,

5. Total Estimated Project Cost (all phases):

Unknown for the entire basin. The estimate for clearing the 15,000 foot stretch of the waterway in May Valley is \$150,000 for the actual removal and an additional \$50,000 for haul out. Some of the haul out costs probably can be mitigated by offering the soil to landowners and/or top soil companies who would find the quality very high. The county has already allocated \$400,000 for this portion of the project.

The work upstream should include assuring the settling ponds in the quarry are functioning adequately and the addition of catch basins strategically along the waterway.

Downstream the work entails work on the stream banks shoring them up against erosion.

6. Proposed Local Share (if sub-regional project). Provide other actual local share if known or proposed, if not known:
 \$_____\$
 \$ 0

LOCATION INFORMATION

7. Downstream River Mile # to Upstream RM #:

The situation occurs along the 7-mile May Creek which stretches from its headwaters in the hillsides of Cougar Mt., Squawk Mt., Newcastle, and the plateau east of Renton to Lake Washington.

- 8. Right bank, Left bank, or Both banks:
- 9. Jurisdiction(s):

Unincorporated King County

10. Public or Private lands:

Private lands

11. Agriculture Production District or Farmland Preservation Program lands: yes/no/do not know No

PROJECT INFORMATION

12. What's At Risk:

Private property, pastureland, cropland, erosion, water quality, salmon habitat

13. Problem Statement:

For well over 40 years the May Basin has flooded annually with each year becoming progressively worse in both volume and duration.

14. Proposed Project or Action:

The May Creek Basin Action Plan approved by the KC Council and Executive in April 2001 is a complete project plan.

15. Project Benefits:

Flooding reduction, erosion reduction, increase in water quality, recovery of salmon habitat, reduction in pastureland and cropland impact, halt drop in water table

16. Coordination Needs:

None: the entire project only requires actions inside King County government.

17. Other Information or Needs:

The King County Council and the Executive approved the May Creek Basin Plan in April, 2001. The plan had as it's objectives to: 1) reduce the threat of flooding to citizens in the May Creek Basin, 2) make infrastructure improvements that will facilitate stormflow conveyance, stabilize stream banks, and reduce erosion, 3) protect and enhance fish and wildlife habitat and water quality in the basin, and 4) take reasonable steps to prevent existing problems from worsening in the future.

PROJECT PROPOSAL CRITERIA AND POLICY BASIS (See policy/criteria handout for expanded policy text and criteria, used to generate draft KC FCZD CIP lists)

The situation in May Valley began in the mid-1970's when the valley began to flood annually getting progressively worse in both volume and duration each year since. Prior to that point the 3-mile stretch of May Creek that cuts through hundreds of acres of pasture and crop land was cleaned of the silt mainly coming from runoff from development on the hillsides surrounding the valley. The Corps of Engineers dredged the May Creek in the late 1930's and local citizens paid to have the creek cleaned periodically until the 1960's when the resident hired to do the work died. The last project to clear approximately 300 of the 1,500 feet of the waterway west of SR 900 was completed in 1989. Unfortunately, 1989 and 1990 were years of significant rainfall which blew out the settling ponds at the quarry at the summit between May Valley and Issaquah. Since then, no proposed projects have been permitted..

This portion of the May Creek Basin acts as a retention/detention area for the volume of water coming from the headwaters in Cougar Mountain and off the hillsides north and south of the valley. The bottom of May Creek is rocky and allows water to seep into the water table in the area. However, as silt from development and from runoff from upstream quarries works its way into the valley, the buildup creates an impermeable barrier in the creek which prevents the detent of the water.

Today it's estimated that there is somewhere between 50,000 and 65,000 tons of silt that has built up in the creek.

Two roadways cut across the stream in the valley acting like natural dams. As road resurfacing has been done over the years, these dams have been raised almost 2 feet. With only a 14 foot drop in elevation along this section of the stream, this seemingly insignificant change in dam height has devastating effects on the flooding in the area.

Two homes have already been flooded out to the point where King County bought the residents out. Because the detention is no longer effective, the water table has dropped significantly. The valley is

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home to a large population of horses whose health is in jeopardy because of the effects wet pastureland has on their feet. The crop use of the land has also been seriously impacted.

The stream has been home to a healthy run of Coho and other species of salmon however, this run has all but disappeared.

The flooding is also effecting rural economics with residents intending to develop businesses like a horse ranch have sold out to businesses that are not rural in nature. Also, as the land becomes dangerous for horses, the large equine population in the area is in jeopardy.

Although historical records show that the area prior to the 1960's was not a wetland, the failure to continue to maintain the health of the retention/detention capabilities of the area has now made it one under the Sensitive Area Ordinance and later the Critical Areas Ordinance. This has created a sad "Catch 22" where the area is a wetland because maintenance cleaning stopped and cleaning can't occur because it's now a wetland.

Two pilot projects were attempted in the valley. The first cleaned some 300 feet of the creek but the cost turned out to be \$550/foot far in excess of the \$7 to \$10/foot estimated by contractors that maintain similar waterways. A project that put plantings around the edge of the creek turned out to worsen the flows and now the waterway in these areas is almost entirely clogged with growth that has spread from the banks into the creek.

18.	Policy G-2 Flood Risks : please check all that apply, as to be addressed by the proposed project and include a brief description of the risk.
19.	Threats to public safety: Damage to public infrastructure: XXX Impacts on the regional economy: XXX Damage to private structures: Policy PROJ-1 Prioritizing Flood Risks: please check all that apply, associated with proposed project and include a brief description of the risk.
	 The consequences that will result if no action is taken. Consequences should be prioritized as identified in Policy G-2: XXX Urgency, where urgency is a measure of how quickly an action needs to be taken in order to prevent a risk from growing worse: Legal responsibility and authority, where legal responsibility and authority is a contractual relationship between King County and another person or agency to maintain a flood protection facility: Funding or partnership opportunities:
20.	Anticipated Project Start Date (to reflect feasibility, opportunity, and 'ripeness' of project proposal)
	XXX 0-2 years 3-6 years 6+ years
21.	Is the project identified within an adopted local hazard mitigation plan?
	XXX Yes No

22. Do property interests need to be acquired (fee simple or easement) for this project?

^{**} This project summary sheet contains planning level information and preliminary cost estimates; final cost estimates will be developed as more detailed project level information is generated.

	Yes XXX No
23.	If property interests need to be acquired, is the landowner willing to sell or sign a voluntary letter of agreement, expressing an interest in selling necessary property interests?
	Yes No

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Project	Description	Total Project Budget	Requested Funds	Expected Construction
Regional, Major River	Projects			
South Park – 4 th and Trenton	This project installs conveyance improvements along S Trenton St, 3 rd Ave S, 4 th Ave S, S Director St and 7 th Ave s to resolve a number of documented flooding problems in these areas.	\$10.6M	\$7.2M	Preliminary engineering
GREEN BASIN				
Elliott Bay Seawall	Support seawall repair along Seattle's waterfront on Elliott Bay. A feasibility study is in process with the U.S. Army Corps of Engineers.	\$600-\$800M	\$2M	Feasibility study with Corps
GREEN BASIN	The funds would support that feasibility study which will identify failure scenarios, possible repairs, and cost-benefit ratios. We expect to apply for			
Tolt Levee Setback	The project is at the Tolt-Snoqualmie on King County land (Tolt MacDonald Memorial Park). Project relocates a historical levee away	\$6M	\$1M	70% design, King County
SNOQUALMIE BASIN	from the channel along about 2,600 ft of the Tolt river, setting back about 800 ft, reconnecting 45 acres of floodplain. Total cost is about \$6M – funds coming from King County, grants, and Seattle (\$2.5M). The project needs \$1M in funding for completion. This project is in the Flood Hazard Management Plan, although at a low amount of funding.			poised to release SEPA notice of action and apply for permits.
Sub-Regional Projects				
Madison Valley Long Term Solution	This project will implement a long-term solution to storm water flooding and side sewer back-ups in the Madison Valley area.	\$23.7M		Planning/ preliminary engineering
Madison Valley "sag"	Address flooding on Madison Ave near Washington Park playfield.			Investigation
MLK Way/Norfolk Street Storm Improvements	Reduce flooding problems along Martin Luther King Jr Way S and adjacent streets by rehabilitating the existing system, eliminating bypasses to the sanitary sewer systems and providing a functional conveyance system for further roadway and drainage improvements.	\$11.6M		Project design

Project	Description	Total Project Budget	Requested Funds	Expected Construction
N 125 th and Aurora N storm drain	Stormwater facilities associated with SDOT Aurora corridor street improvement project. Proposing regional detention facility at Stone Pond to reduce flooding problems from N 145 th to 110 th and downstream.	\$9.4M		Preliminary engineering
Thornton Creek confluence	The confluence of the north and south branches of Thornton Creek is subject to flooding due to sediment deposition and encroachment into the creek floodplain. SPU has purchase about 4 properties in this area that are repeatedly flooded. This project would purchase additional flood-prone properties in the area and remove the structures to improve floodplain conveyance and capacity.	\$1.7M		Investigation
Thornton Creek South Branch	Improvement of floodplain conveyance and capacity	\$700,000		Investigation